

ABSTRACT

AUTO FAN CONTROL SYSTEM

ATMEGA328 MICROCONTROLLER BASED REMOTE CONTROL AS THE GOVERNING WITH TEMPERATURE

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The purpose of making a final project entitled Automatic Fan Control System Based Microcontroller ATmega328 with Remote Control For Temperature Controller is to allow users to adjust the fan speed automatically. So it can save and streamline the work that is usually done manually which could then work automatically and effective for humans.

The study was conducted with the design and manufacture of Automatic Fan Control System Based Microcontroller ATmega328 with Remote Control For Thermostat. Further functional testing tools, as well as research skills temperature sensor is used. The system was designed using Microcontroller ATmega328 as the main controller with display using Hitachi LCD 16x2, with the input button on the remote control, by detecting the temperature using LM35 temperature sensor is processed by the microcontroller through the internal ADC, the fan control relay that is able to adjust the fan speed to 3 rate of speed through the inductor.

Based on the test results and the performance of the Automatic Fan Control System Based Microcontroller ATmega328 with Remote Control For Temperature Regulator, has shown results in accordance with the plan. The fan works with the level of speed according to the temperature value has been set. Temperature measurement system has an average error of 1.69%.

Keywords: Controller, Fan, Temperature, ATmega328 microcontroller, LCD, Remote Control, Automatic.